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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,459	07/14/2004	Toshiyuki Ogata	2004-1119A	7571

513 7590 06/05/2007
WENDEROTH, LIND & PONACK, L.L.P.
2033 K STREET N. W.
SUITE 800
WASHINGTON, DC 20006-1021

EXAMINER

SCHILLING, RICHARD L

ART UNIT	PAPER NUMBER
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1752

MAIL DATE	DELIVERY MODE
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06/05/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/501,459	Applicant(s) OGATA ET AL.	
	Examiner Richard L. Schilling	Art Unit 1752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 46,47 and 49-71 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 46,47,49--55,57,58,60,61,64-66,70 is/are allowed.
- 6) ☒ Claim(s) 56,59,62,67-69 and 71 is/are rejected.
- 7) ☒ Claim(s) 63 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

1. Claims 52-62, 67-69 and 71 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "highly fluorinated" is relative and indefinite. How many H atoms that have to be replaced by F to be highly fluorinated is indefinite. The term is not defined in the specification.

2. Claim 56 is rejected under 35 U.S.C. 102(e) as being anticipated by Aoki et al. '217. Aoki et al. (col. 3, lines 1-52, col. 4, lines 17-41; col. 7, lines 55-64; col. 6, line 60- col. 7, line 3; col. 9, lines 30-41) disclose copolymers of perfluorinated polycyclic alkyl pendant groups for R15 and R7 with acid insoluble vinyl comonomers.

3. Claims 56, 59, 62, 67-69 and 71 are rejected under 35 U.S.C. 102(e) as being anticipated by Harada et al. '231. Harada et al. (paragraphs 5-13,26,27,40-45) disclose copolymers of fluorinated polycyclic acrylates with vinyl acid insoluble comonomers. The alicyclic groups contain several F atoms and are considered to be highly fluorinated. Some of the cyclic groups have over half of the H atoms replaced by F.

4. Claims 56, 59, 62, 67-69 and 71 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuzawa et al. Matsuzawa et al. (paragraphs 15,22-27,30,31) disclose fluorinated polycyclic acrylates with vinyl comonomers that are acid insoluble or contain acid insoluble groups R5.

5. Claim 63 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

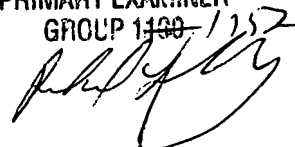
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6. Rao is cited of interest as disclosing perfluorinated cyclohexyl acrylate.

Any inquiry concerning this communication should be directed to Richard L.

Schilling at telephone number 571-272-1335.

RICHARD L. SCHILLING
PRIMARY EXAMINER
GROUP 1100-1252

A handwritten signature in black ink, appearing to read 'Richard L. Schilling', is written over the printed name and title.